



MPE Report

Report No.:STS2601328H01

Issued for

Beijing Shenmou Technology Co., Ltd

160, 05th floor, within 101, 1st to 14th floors, Building 4, Yard
59, Chemical Road, Chaoyang District, Beijing, China

Product Name: Sleep health monitor

Brand Name: SYSMO

Model Name: SMKJ-I

Series Model(s): N/A

FCC ID: 2BUGI-SMKJ-I

Test Standard: FCC 47CFR §2.1091

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the ShenZhen STS Test Services Co., Ltd.

**TEST REPORT**

Applicant's Name: Beijing Shenmou Technology Co., Ltd
Address: 160, 05th floor, within 101, 1st to 14th floors, Building 4, Yard 59,
Chemical Road, Chaoyang District, Beijing, China
Manufacturer's Name: Beijing Shenmou Technology Co., Ltd
Address: 160, 05th floor, within 101, 1st to 14th floors, Building 4, Yard 59,
Chemical Road, Chaoyang District, Beijing, China

Product Description

Product Name: Sleep health monitor
Brand Name: SYSMO
Model Name: SMKJ-I
Series Model(s): N/A

Test Standards: FCC 47CFR §2.1091
447498 D01 Interim General RF Exposure Guidance v06

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Date of Test

Date of receipt of test item: 12 Jan. 2026
Date (s) of performance of tests: 12 Jan. 2026 to 15 Jan. 2026
Date of Issue: 15 Jan. 2026
Test Result: **Pass**

Testing Engineer :

Aaron Bu

(Aaron Bu)

Technical Manager :

Skylar Li

(Skylar Li)

Authorized Signatory :

Bovey Yang

(Bovey Yang)





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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	15 Jan. 2026	STS2601328W02	ALL	Initial Issue



1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Sleep health monitor	
Brand Name	SYSMO	
Model Name	SMKJ-I	
Series Model(s)	N/A	
Model Difference	N/A	
Product Description	The EUT is a Sleep health monitor	
	Operation Frequency:	BLE: 2402 – 2480 MHz 2.4G WIFI: 2412-2462 MHz
	Modulation Type:	BLE: GFSK 2.4G WIFI: 802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM
	Antenna Type:	Internal antenna
	Antenna Gain (dBi)	2.46
Power Rating	DC 5V from adapter	
Adapter	Manufacture: Guangdong Qingliu Electronics Co.,LTD Model: QL010-0502000UU Input: 100-240V~50/60Hz 0.45A Output: 5.0V ---2A	
Battery	N/A	
Hardware Version	N/A	
Software Version	N/A	

1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01



2. FCC 47CFR §2.1091 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of the human exposure to radio-frequency (RF) radiation as specified in 1.1307 (b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)
Limits for Occupational / controlled Exposures			
300 - 1500	--	--	F/300
3.0-30	1842/f	4.89/f	*(900/f ²)
1500 – 100000	--	--	5.0
Limits for General population / Uncontrolled Exposure			
300 - 1500	--	--	F/1500
1.34-30	824/f	2.19/f	*(180f ²)
1500 – 100000	--	--	1.0

F= Frequency in MHz

Friss Formula

Friss Transmission Formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = Distance between observation point and the center of radiator in cm

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20cm.



2.3 TEST RESULT

Tune up

Mode	Detector	Tune up Power
BLE	Peak	-1±1dBm
2.4G WIFI	Peak	14±1dBm

Protocol	Fre. (GHz)	Separati on distance (cm)	Max Tune up power (dBm)	ANT Gain (dBi)	Max EIRP (dBm)	Max EIRP (mW)	Power Density (mW/cm ²)	Limit (mW/ cm ²)	Ratio	Result
BLE	2.440	20	0	2.46	2.46	1.762	0.0004	1	0.0004	Pass
2.4G WIFI	2.462	20	15	2.46	17.46	55.719	0.0111	1	0.0111	Pass

For Simultaneous Transmitting: the ratio=BLE/ Limit +2.4G WIFI/Limit=0.0004/1+0.0111/1=0.0115≤1

Note: 1. The Maximum power is less than the limit, complies with the exemption requirements.

2. ERP = EIRP - 2.15

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